



Aaryan Raaz

UG (IV Year I Semester)
B.Tech. (Civil Engineering)
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Registration No: 20113002/2024



Area of Interest

Problem Solving, Data Analytics and Machine Learning

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2023	B.Tech. 3rd Year	Indian Institute of Technology, Roorkee	7.871
2019	Intermediate (Class XII)	P C S Gandhi Chowk Khalispur, Samastipur (CBSE)	88.80 %
2017	Matriculate (Class X)	P C S Gandhi Chowk Khalispur, Samastipur (CBSE)	10.000

Internships

Research Intern | IIT Roorkee May 2023 - June 2023

- Worked as a research intern and analyzed the commuters' perceptions of air pollution and travel behavior in Delhi.
- Employed diverse machine learning models like Random Forest, Multinomial Logistic Regression, XGBoost, and Naive Bayes and compared the model accuracy to predict mode shifts based on air quality.
- Findings provide valuable insights that contribute to lowering commuters' exposure to air pollution and promoting sustainable transportation, ultimately leading to the reduction of overall air pollution levels.

Data Science and Business Analytics Intern | The Sparks Foundation November 2022 - December 2022

- Performed Exploratory Data Analysis on Global Terrorism and retail datasets, and employed different plotting techniques to reveal numerous insights and derive meaningful conclusions from the datasets.
- Leveraged sports analytics on the 'IPL' dataset, contributing to data-driven endorsements for teams and players.

Projects

Rainfall Prediction | Department of Management, IIT Roorkee March 2023 - May 2023

- Executed this project as part of the Data Mining for Business Intelligence course. Implemented and evaluated ML models (Logistic Regression, SVC, ANN), achieving 85% accuracy in rainfall prediction.
- Performed extensive data cleaning, preprocessing, and visualization for enhanced comprehension and precise analysis.

Used Car Price Prediction | Self Project January 2023

- Conducted data preprocessing and visualization for predicting used car prices, leveraging advanced techniques.
- Applied machine learning models, including Linear Regression and Decision Tree Regression, and performed comparisons to identify the most accurate pricing model enhancing decision-making in the secondary car market.

URL Shortener | Association of Computing Machinery, IIT Roorkee June 2023

- Developed a user-friendly NodeJS-based URL shortener with custom aliases, click tracking, and user authentication.
- Elevated user experience by implementing responsive design and personalized URL indexes, enhancing usability.

Awards / Scholarships / Academic Achievements

- Global Rank 1077 in Codeforces Round 880
- Global Rank 394 in CodeChef Starters 99
- Global Rank 1637 in Leetcode Weekly Contest 361
- Selected as a mentee in Microsoft Intern Engage 2022

Skills

Computer languages	C++, Python, SQL
Software Packages	MySQL, Jupyter Notebook, MS Office(Excel, Power point)
Additional Courses	Data Structure and Algorithms, Data Mining for Business Intelligence, Machine Learning Specialization (Coursera)

Positions of Responsibility & Extra Curriculars

Competitive Programming | Online Judges January 2022 - Present

- Solved 800+ questions on online judges including LeetCode, Codeforces, and CodeChef.
- Id - roy_00. Rating - Codeforces (max. rating 1566), Codechef (max. rating 1749) and Leetcode (max. rating 1733)

Documentation Coordinator | Unnat Bharat Abhiyan, IIT Roorkee May 2021 - May 2022

- Worked as the coordinator for documentation of team UBA, an initiative of Govt. of India aimed at enriching rural India.
- Managed documentation for 30 UBA team members, including MoMs and BTOs. Prepared and submitted monthly, quarterly, and semester reports to the Government of India, outlining the team's village work.
- Worked on initiatives across the verticals of education, agriculture, and sustainability in the adopted village.

Volunteer | NSS, IIT Roorkee December 2020 - July 2021

- Volunteered for NSS Pragati Cell which devotes itself to the welfare of the rural population to bring every individual on equal footing, and spread awareness about beneficial governmental policies and social issues.